

US006670883B1

(12) United States Patent

Asakura et al.

(10) Patent No.:

US 6,670,883 B1

(45) Date of Patent:

Dec. 30, 2003

(54) REMOTE CONTROL SYSTEM FOR A VEHICLE DOOR

(75) Inventors: Suguru Asakura, Saitama (JP); Taizou

Kikuchi, Saitama (JP); Akira Nagai,

Saitama (JP)

(73) Assignee: Honda Giken Kogyo Kabushiki

Kaisha, Tokyo (JP)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 301 days.

(21) Appl. No.: 09/662,346

(58)

(22) Filed: Sep. 14, 2000

(30) Foreign Application Priority Data

Oct. 1, 1999 (JP) 11-281953

(51) Int. Cl.⁷ G05B 19/00

(52) **U.S. Cl.** **340/5.61**; 340/5.64; 340/5.72; 340/428; 340/7.32; 340/825.69; 340/825.72; 307/10.1; 307/10.4

307/10.1, 10.4

(56) References Cited

U.S. PATENT DOCUMENTS

5,723,911 A * 3/1998 Glehr 340/10.5

5,844,517 A * 12/1998 Lambropoulos 341/176

FOREIGN PATENT DOCUMENTS

JP	5-106376	4/1993
JP	09-032377	2/1997
JP	10-25939	1/1998
JP	10-153025	6/1998
JP	11-107592	4/1999
JP	11-117586	4/1999

^{*} cited by examiner

Primary Examiner—Brian Zimmerman Assistant Examiner—Yves Dalencourt (74) Attorney, Agent, or Firm—Armstrong, Kratz, Quintos, Hanson & Brooks, LLP

(57) ABSTRACT

A remote door lock controlling apparatus for a vehicle performing a door lock control in response to a response signal received by a vehicle mounted receiver which is transmitted from a portable transmitter/receiver upon receiving a response demand signal from the vehicle is improved wherein the door lock control function is stopped by a request of the user or depending on the magnitude of a terminal voltage of a battery mounted in the vehicle.

11 Claims, 14 Drawing Sheets

